

IN THE CLAIMS:

The text of all pending claims is set forth below. Cancelled and not entered claims are indicated with claim number and status only. Please **CANCEL** claims 3, 4, 25-27 and 33-37 without prejudice or disclaimer. Please **AMEND** claims 1, 5-14 and 28-32 and **ADD** new claims 38-54 in accordance with the following:

1. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment comprising:
~~a hole-like concave opening having a continuous walled inner peripheral surface;~~
~~a body having an end face that opposes an object to be conveyed, and at least one concave opening formed in the end face being formed in the concave opening and surrounded by a cylindrical inner side wall; and~~
~~a fluid passageway comprising a spout facing the inside having a plurality of spouts to introduce fluid into an inner space of the concave opening, to supply fluid to the inner peripheral surface of the concave opening in a circumferential direction of the cylindrical inner sidewall so as to cause a swirl of fluid within the concave opening, the plurality of spouts being formed on the cylindrical inner sidewall.~~

2. (CANCELLED)

3. (CANCELLED)

4. (CANCELLED)

5. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 1, further comprising a centering guide to maintain a position of

the object to be conveyed such that the object opposes the end face.

6. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 5, wherein
the non-contacting conveyance equipment has an outer periphery, and
the centering guide comprises at least three centering protrusions provided around the outer periphery.

7. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 6, wherein
the centering protrusions are radially displaced from a center of the non-contacting conveyance equipment, and
the non-contacting conveyance equipment further comprises a centering mechanism to vary the radial distance of the centering protrusions from the center of the non-contacting conveyance equipment.

8. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 7, wherein the centering mechanism comprises:
a rotatable disk; and
arms linking each centering protrusion to the rotatable disk such that rotation of the rotatable disk changes the radial distance of the centering protrusions from the center of the non-contacting conveyance equipment.

9. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 8, wherein the centering mechanism is pneumatically driven.

10. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment comprising: according to claim 1, further comprising
a base; and
with a plurality of concave openings fluid swirl formation objects which are provided on
at the base,
wherein each of the plurality of fluid swirl formation objects comprises:
a body concave opening having an end face that opposes an object to be
conveyed, and a concave opening formed in the end face and surrounded by a cylindrical inner
side wall, and
therein and a fluid passageway comprising a spout facing the inside thereof
having a plurality of spouts to introduce fluid into an inner space of the concave opening in a
circumferential direction of the cylindrical inner side wall so as to cause a swirl of fluid within the
concave opening, the plurality of spouts being formed on the cylindrical inner side wall.

11. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 10, wherein ~~the spouts of the concave openings face different directions such that fluid swirls in a clockwise in at least one direction in a first portion of the~~
~~concave openings and~~ plurality of fluid swirl formation objects, and fluid swirls flows in a counter
clockwise direction in a second portion of the concave openings in at least one of the plurality of
fluid swirl formation objects.

12. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 10, wherein the base is surrounded with a peripheral edge to block a flow of fluid ~~off~~ from the base.

13. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 12, wherein the peripheral edge has a stepped shape.

14. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 10, further comprising at least one fluid discharge passage provided in the base to eliminate expel fluid supplied through the plurality of spouts of the plurality of fluid swirl formation objects.

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27. (CANCELLED)

28. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim ~~25~~ 10, further comprising a centering guide to maintain a position of the object to be conveyed such that the object opposes the end face.

29. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 28, wherein
the non-contacting conveyance equipment has an outer periphery, and
the centering guide comprises at least three centering protrusions provided around the outer periphery.

30. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 29, wherein
the centering protrusions are radially displaced from a center of the non-contacting conveyance equipment, and
the non-contacting conveyance equipment further comprises a centering mechanism to

vary the radial distance of the centering protrusions from the center of the non-contacting conveyance equipment.

31. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 30, wherein the centering mechanism comprises:

a rotatable disk; and

arms linking each centering protrusion to the rotatable disk such that rotation of the rotatable disk changes the radial distance of the centering protrusions from the center of the non-contacting conveyance equipment.

32. (CURRENTLY AMENDED) ~~Non-contacting~~ A non-contacting conveyance equipment according to claim 31, wherein the centering mechanism is pneumatically driven.

33. (CANCELLED)

34. (CANCELLED)

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36. (CANCELLED)

37. (CANCELLED)

38. (NEW) A non-contacting conveyance equipment according to claim 1, wherein the plurality of spouts are plural pairs of spouts, and

each of the plural pairs of spouts is formed on the cylindrical inner side wall symmetrically to a central axis of the concave opening.

39. (NEW) A non-contacting conveyance equipment according to claim 1, wherein the end face comprises a chamfered edge.

40. (NEW) A non-contacting conveyance equipment according to claim 1, wherein the concave opening is in a tapered shape.

41. (NEW) A non-contacting conveyance equipment according to claim 10, wherein the plurality of spouts are plural pairs of spouts, and each of the plural pairs of spouts is formed on the cylindrical inner side wall symmetrically to a central axis of the concave opening.

42. (NEW) A non-contacting conveyance equipment according to claim 10, wherein the end face comprises a chamfered edge.

43. (NEW) A non-contacting conveyance equipment according to claim 10, wherein the concave opening is in a tapered shape.

44. (NEW) A non-contacting conveyance equipment according to claim 10, wherein the plurality of fluid swirl formation objects are provided at the base in such a way that each of the plurality of fluid swirl formation objects extends from the base.

45. (NEW) Non-contacting conveyance equipment comprising:

a hole-like concave opening having a continuous walled inner peripheral surface;
an end face that opposes an object to be conveyed, the end face being formed in the concave opening;
a fluid passageway comprising a spout facing the inside of the concave opening, to supply fluid to the inner peripheral surface of the concave opening so as to cause a swirl of fluid within the concave opening; and
a centering guide to maintain the object to be conveyed such that the object opposes the end face, wherein
the non-contacting conveyance equipment has an outer periphery,
the centering guide comprises at least three centering protrusions provided around the outer periphery,
the centering protrusions are radially displaced from a center of the non-contacting conveyance equipment, and
the non-contacting conveyance equipment further comprises a centering mechanism to vary the radial distance of the centering protrusions from the center of the non-contacting conveyance equipment.

46. (NEW) Non-contacting conveyance equipment according to claim 45, wherein the centering mechanism comprises:

a rotatable disk; and
arms linking each centering protrusion to the rotatable disk such that rotation of the rotatable disk changes the radial distance of the centering protrusions from the center of the non-contacting conveyance equipment.

47. (NEW) Non-contacting conveyance equipment according to claim 46, wherein the centering mechanism is pneumatically driven.

48. (NEW) Non-contacting conveyance equipment comprising:

a hole-like concave opening having a continuous walled inner peripheral surface;

an end face that opposes an object to be conveyed, the end face being formed in the concave opening;

a fluid passageway comprising a spout facing the inside of the concave opening, to supply fluid to the inner peripheral surface of the concave opening so as to cause a swirl of fluid within the concave opening; and

a base with a plurality of concave openings provided on the base, each concave opening having an end face formed therein and a fluid passageway comprising a spout facing the inside thereof,

wherein the base is surrounded with a peripheral edge to block a flow of fluid off the base and the peripheral edge has a stepped shape.

49. (NEW) Non-contacting conveyance equipment comprising:

a hole-like concave opening having a continuous walled inner peripheral surface;

an end face that opposes an object to be conveyed, the end face being formed in the concave opening;

a fluid passageway comprising a spout facing the inside of the concave opening, to supply fluid to the inner peripheral surface of the concave opening so as to cause a swirl of fluid within the concave opening;

a base with a plurality of concave openings provided on the base, each concave opening having an end face formed therein and a fluid passageway comprising a spout facing the inside thereof; and

at least one fluid discharge passage provided in the base to eliminate fluid supplied

through the spouts.

50. (NEW) Non-contacting conveyance equipment comprising:

a concave opening having a continuous walled inner peripheral surface;

an end face that opposes an object to be conveyed, the end face being formed in the concave opening;

a fluid passageway comprising a spout facing the inside of the concave opening, the fluid passageway ending at an opening through the inner peripheral surface, to supply fluid to the inner peripheral surface of the concave opening so as to cause a swirl of fluid within the concave opening; and

a centering guide to maintain the object to be conveyed such that the object opposes the end face, wherein

the non-contacting conveyance equipment has an outer periphery,

the centering guide comprises at least three centering protrusions provided around the outer periphery,

the centering protrusions are radially displaced from a center of the non-contacting conveyance equipment, and

the non-contacting conveyance equipment further comprises a centering mechanism to vary the radial distance of the centering protrusions from the center of the non-contacting conveyance equipment.

51. (NEW) Non-contacting conveyance equipment according to claim 50, wherein the centering mechanism comprises:

a rotatable disk; and

arms linking each centering protrusion to the rotatable disk such that rotation of the

rotatable disk changes the radial distance of the centering protrusions from the center of the non-contacting conveyance equipment.

52. (NEW) Non-contacting conveyance equipment according to claim 51, wherein the centering mechanism is pneumatically driven.

53. (NEW) Non-contacting conveyance equipment comprising:
a concave opening having a continuous walled inner peripheral surface;
an end face that opposes an object to be conveyed, the end face being formed in the concave opening;
a fluid passageway comprising a spout facing the inside of the concave opening, the fluid passageway ending at an opening through the inner peripheral surface, to supply fluid to the inner peripheral surface of the concave opening so as to cause a swirl of fluid within the concave opening; and
a base with a plurality of concave openings are provided on the base, each concave opening having an end face formed therein and a fluid passageway comprising a spout facing the inside thereof,
wherein the base is surrounded with a peripheral edge to block a flow of fluid off the base and the peripheral edge has a stepped shape.

54. (NEW) Non-contacting conveyance equipment comprising:
a concave opening having a continuous walled inner peripheral surface;
an end face that opposes an object to be conveyed, the end face being formed in the concave opening;
a fluid passageway comprising a spout facing the inside of the concave opening, the

fluid passageway ending at an opening through the inner peripheral surface, to supply fluid to the inner peripheral surface of the concave opening so as to cause a swirl of fluid within the concave opening;

a base with a plurality of concave openings are provided on the base, each concave opening having an end face formed therein and a fluid passageway comprising a spout facing the inside thereof; and

at least one fluid discharge passage provided in the base to eliminate fluid supplied through the spouts.